$$\frac{XYCD}{ABCD} = p$$

$$AB = a,\ AD = c$$

$$CD = b$$

$$XY = d$$

$$XD = z$$

$ABCD$ trapéz magassága $m$
$XYCD$ trapéz magassága $m'$.

$$\frac{\frac{b+d}{2} \cdot m'}{\frac{b+a}{2} \cdot m} = p$$

$$m' : m = z : c$$

$$\frac{b+d}{b+a} \cdot \frac{z}{c} = p$$

$$d - b : a - b = z : c$$

$$d - b = \frac{z}{c}(a - b)$$

$$d = \frac{z(a-b) + bc}{c}$$

$$\frac{\frac{2bc + z(a-b)}{c}}{a+b} \cdot \frac{z}{c} = p$$

$$z(2bc + z(a-b)) = pc^2(a+b)$$

$$z^2(a-b) + z2bc - pc^2(a+b) = 0$$

$$z = \frac{-bc \pm c\sqrt{b^2 + (a^2 - b^2)p}}{a - b}$$

(Schönner Odilio, Losoncz).

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